

# STEM WORKSHOPS IN GERMAN

FRIDAY  
3 MAY 2019  
10.45 AM – 2.30 PM



**Dear Students,**

**How can we build energy-efficient homes?**

**How do immune cells respond to infection?**

**What is DNA and can we actually see it?**

**Step into the shoes of STEM professionals and find out.**

**LEARN GERMAN  
+ STUDY SCIENCE**

## PROGRAM

**10.45 am**

Welcome by Eva Baker,  
Deputy Director of the  
Goethe-Institut Australien

**11.00 am – 12.15 pm**

Workshops

**12.15 am – 1.00 pm**

Lunch

**1.00 pm – 2.15 pm**

Workshops

**2.15 pm – 2.30 pm**

German science vocabulary quiz

*Working in small groups you will explore the work of three scientists.*

### **GlitterBugs: How clean are your hands?**

**Dr Marie Greyer (University of Melbourne)**

You may not be aware but many microscopic bugs and bacteria live on our skin and within our bodies. Some are beneficial to us whilst others can cause harm. The 'GlitterBug' experiment highlights the abundance of bugs that live in our environment, such as those that reside on our hands.

### **DNA, Genes and gene therapy**

**Dr Ueli Nachbur (Walter and Eliza Hall Institute of Medical Research)**

Gene therapy is one of the next big things in medical research. Researchers and doctors are now able to correct defective genes and introduce new ones. In this workshop, you will isolate a banana's DNA and answer questions like: What is a gene? What does a gene look like? Can you actually see it? Will we make the banana blue? Probably not.

### **Design an energy-efficient home in Bauhaus style**

**Steffen Welsch (Steffen Welsch Architects)**

An energy efficient house can save up to 90% of the energy a normal house would use. In this workshop you will design a home that needs as little energy as a hairdryer to keep you warm in winter. Additionally you will learn about Bauhaus, the movement that connects art, technology and social responsibility in architecture. Find out how this movement affects us today.

[www.goethe.de/sciencegerman](http://www.goethe.de/sciencegerman)

**GOETHE-INSTITUT IN MELBOURNE**

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